

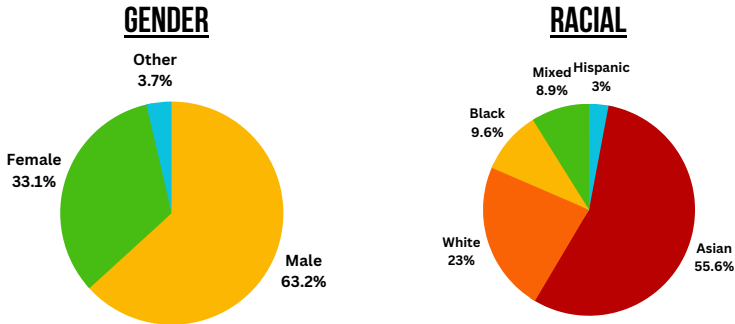


OUR MISSION

Based in Central High School in North Philadelphia, we work to inspire and prepare the next generation of STEM leaders in Philadelphia.



DEMOGRAPHICS



OUTREACH HOURS

Outreach and volunteering are a core aspect of our team, and each returning member is expected to complete a certain amount of hours each year. We have 3 tiers of service that students choose to complete.

- Tier 1:
 - Mentorship outside of the Central High School Community
 - Minimum of 20 hours
- Tier 2:
 - FIRST Event Volunteering and STEM tutoring within Central High School
 - Minimum of 30 hours
- Tier 3:
 - Internal Mentorship - FTC Captaining and Teaching our Programming Class
 - Minimum of 40 hours

INTERNAL FTC PROGRAM

First-year members of the RoboLancers complete one year on one of our 6 internal FTC teams. Our members have spent over 450 hours mentoring members of our FTC teams.



BOOTCAMP AND SPRING TRAINING

At the beginning of each year, we run a bootcamp for new members to teach them the basics of each of our 4 subgroups to introduce them to the team and the work we do, and we publish all of our lesson plans on our website for others to utilize.

Bootcamp Classes:

- **The Philadelphia Robotics Coalition (PRC):**
 - Introduces students to the basics of our outreach work
- **Business:**
 - Introduces students to business principles like funding and awards
- **Programming:**
 - Goes through the basics of programming and has programming challenges
- **Design:**
 - Teaches the design process and students design an elastic car in groups
- **Safety:**
 - Teaches basic safety rules and gives students a tour of the machine shop
- **FTC**
 - Breaks down the different aspects of FTC and tours the FTC workspace

Spring Training:

Follo

wing the FRC competition season, we run classes for FTC members who are moving up to FRC the upcoming year to introduce them to higher level concepts and skills like wiring systems, leadership, FRC designing and mechanisms, etc.

OUTREACH

The Philadelphia Robotics Coalition



History

In 2016, the RoboLancers started the Central Robotics Coalition to aid teams in our city. Today, we are a 501(c)(3) non-profit that funds, mentors, trains coaches, and run events for over 100 teams in Philadelphia.



Teams We Support

- **This Year:**
 - FLL Explore: 40 teams
 - FLL Challenge: 57 teams
 - FTC: 33 teams
 - FRC: 1 team
 - Total: 131 teams
 - We mentor 23 of these teams, providing students with technical and business skills
- **Started in the Last 3 Years: 94**



Coach Trainings

- To provide coaches with the training and skills needed to lead a successful team, we hold coach trainings right before and right after the beginning of the school year
 - 5 training sessions this year
 - 60 participants
 - 11 in the last 3 years

Annual Events

• Workshops

- Our 4 workshops are designed to guide FTC teams through their build season, providing them with support throughout each step
 - Design It!
 - Build It!
 - Program It!
 - Drive It!

• Scrimmages and Competitions

- Philadelphia FLL Challenge Qualifier
- FLL Explore Expo
- FTC Scrimmage
- Philadelphia FTC Qualifier

• Off-Seasons

- RoboJawn
 - 3-part competition for both FLL programs and FTC teams
- HackaJawn (New This Year!)
 - Combination of a traditional Hackathon and a 24-hour FLL competition for high schoolers



Summer Camps

- This year we began to run free summer camps in collaboration with the Philadelphia Department of Parks and Recreation and Inspiring Minds Philadelphia.
 - 4 locations
 - 7 weeks
 - 60 children